

1. Intended use / product description



Ord. No. 986 610 0000
 for AV Ord. No. 986-00, 989-0 and
 989-01



Ord. No. 986 610 0000
 for AVS Ord. No. 985-00

Medium: municipal sewage

Max. operating pressure: 16 bar

Material: body and sealing cone: POM
 shaft / spring / adjusting nut: stainless steel

If very high air quantities in a pressure range from 0.2 to 16 bar are introduced during flushing with compressed air, the air release stop will respond mechanically by closing the air valve, thus preventing the flushing air from escaping. During the regular pumping process, the air release stop is inactive.

After the end of flushing with compressed air, the residual pressure contained in the pipe is relieved via an infinitely variable overflow bore. Then the valve returns automatically to its normal operating status.

The air release stop is factory-mounted on the outlet elbow of the air valve. Later installation is possible even in installed condition. In case of retrofitting, the PE angle bracket Ord. No. 986 400 0155 must be ordered additionally.

During installation, assembly, and maintenance, the applicable standards and regulations, accident prevention regulations, as well as the trade associations' provisions must be observed and complied with.

Installation, assembly, and maintenance may be performed by skilled personnel only.

2. Assembly (in case of later installation)



Open-ended wrenches A/F10 and A/F7, screwdriver

2.1 Air valve

Remove the black PE angle bracket from the valve and replace it by PE angle bracket Ord. No. 986 400 0155 to be ordered with the air release stop.

Then screw the air release stop onto the angle bracket and hand-tighten it properly.

After tightening, the overflow screw (1) should point upward -> easier to access and less susceptible to soiling!



Sample picture - AV Ord. No. 986

2.2 Air valve set

Replace the air release stop by the grey plastic ball valve. To this end, loosen the two cap nuts and pull the ball valve upward and out.

Make sure that the two O-rings remain in the valve seats and do not drop into the chamber.

Insert the air release stop between the screw connections and hand-tighten the two threaded rings.



Ensure the correct installation position → arrow pointing outward, overflow screw pointing upward.



3. Commissioning and pressure testing

For commissioning and pressure testing of the AV or AVS, see separate operating instructions.

3.1 Adjustment of response characteristic

In most cases, the factory settings are suitable for the proper functioning of the air release stop. If required, the response characteristic can be adjusted by modifying the distance between the sealing cone and the valve seat.

Air release stop responds too soon

- **Increase** the distance between the sealing cone and the valve seat.
- Retain stop nut M6 using an open-ended wrench A/F10.
- Screw the valve shaft in **clockwise** by several turns by means of a suitable screwdriver.
- The shaft may be screwed in only until the end is flush with the stop nut.

The correct adjustment is reached when the air release stop no longer closes during in-service ventilation but after a short time into flushing with compressed air.



Air release stop does not close during flushing with compressed air

- **Reduce** the distance between the sealing cone and the valve seat.
- Retain stop nut M6 using an open-ended wrench A/F10.
- Unscrew the valve shaft **counterclockwise** by several turns.

The correct adjustment is reached when the air release stop does not close during in-service ventilation but closes after a short time into flushing with compressed air.

After the end of flushing with compressed air, the residual pressure contained in the pipe must be relieved via the overflow bore to allow the air release stop to open.

To accelerate returning to the normal operating state, the overflow bore can be continuously increased between 3 mm² and 28 mm².

To this end, unscrew the plastic screw at the side of the valve body counterclockwise using the open-ended wrench A/F7 (no more than until the black O-ring at the screw becomes visible).

Since an increased overflow bore automatically means a higher air loss during flushing with compressed air, it should be adjusted only as large as necessary to allow opening within an acceptable time interval.



4. Servicing and maintenance



Important: Before maintenance, AVs and AVSs shall be put out of service.
Maintenance shall be performed in unpressurized condition.

For servicing and maintenance of the complete AV and/or AVS, please refer to the respective operating instructions.

On each maintenance of a valve, the function of the air release stop shall be checked as well. Deposits in the air release stop may impair the proper sealing function.

For cleaning, we recommend using lukewarm water.

For maintenance, the air release stop must be screwed off (valve) or dismantled (set). Check the smooth operation of the shut-off mechanism by slowly pressing the sealing cone. The openings of the relief screw, in particular, should be checked for dirt and cleaned, if necessary. If the air release stop is dirty inside, it must be rinsed under running water.

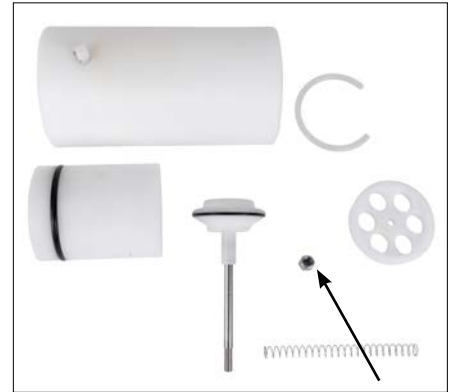
As far as possible, avoid disassembling the air release stop!



If it should be necessary all the same, remove the locking ring at the outlet.



Then, the complete mechanism can be pulled out.



By unscrewing the stop nut (see arrow), the valve core can be taken apart and cleaned.
Assembly is performed in reverse order.

For re-installation, the air release stop must be screwed in (valve) or mounted (set) again (see item 2.2).

If you have any other questions or if you need more information, please contact:

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